



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-5468	Application No. 10/828,659
		Applicant Yogesh S. Sanghvi, et al.	
		Filing Date April 21, 2004	Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JE	1	Beaucage, S.L. et al., "The Synthesis of Modified Oligonucleotides by the Phosphoramidite Approach and their Applications", <i>Tetrahedron</i> , 1993 , <i>49</i> , 6123-6194	
JE	2	Cheruvallah, Z.S., et al., "Synthesis of antisense oligonucleotides: Replacement of 3H-1,2-benzodithiol-3-one 1, 1-dioxide (Beaucage Reagent) with phenylacetyl disulfide (PADS) as efficient sulfurization reagent: From bench to bulk manufacture of active pharmaceutical ingredient," <i>Organic Process Research & Development</i> , 2000 , <i>4</i> , 199-204	
JE	3	Cummings, A.D., et al., "Some observations with ultra-accelerators," <i>Ind. Eng. Chem.</i> , 1928 , <i>20(11)</i> , 1173-1176	
JE	4	Delgado, C., et al., "The uses and properties of PEG-linked proteins," <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 1992 , <i>9(3,4)</i> , 249-304	
JE	5	Efimov, V.A. et al., "New efficient sulfurizing reagents for the preparation of oligodeoxyribonucleotide phosphorothioate analogues", <i>Nucl. Acids Res.</i> , 1995 , <i>23</i> , 4029-4033	
JE	6	Eleueri, A., et al., "Pyridinium trifluoroacetate/ <i>N</i> -methylimidazole as an efficient activator for oligonucleotide synthesis via the phosphoramidite method," <i>Organic Process Res. & Dev.</i> , 2000 , <i>4</i> , 182-189	
JE	7	Eliel, E.L., et al., "Highly stereoselective syntheses involving <i>N</i> -alkyl-4,4,7 α -trimethyl- <i>trans</i> -octahydro-1,3-benzoxazine intermediates," <i>J. Org. Chem.</i> , 1990 , <i>55(7)</i> , 2114-2119	
JE	8	He, X-C. et al., "Highly Enantioselective Syntheses of α -Hydroxyacids Using <i>N</i> -Benzyl-4,4,7 α -Trimethyl- <u>Trans</u> -Octahydro-1,3-Benzoxazine as a Chiral Adjuvant," <i>Tetrahedron</i> , 1987 , <i>43(21)</i> , 4979-4987	
JE	9	Iyer, R.P. et al., "3H-1,2-Benzodithiole-3-one 1,1-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates", <i>J. Am. Chem. Soc.</i> , 1990 , <i>112</i> , 1253-1254	
JE	10	Iyer, R.P. et al., "The Automated Synthesis of Sulfur-Containing Oligodeoxyribonucleotides Using 3H-1,2-Benzodithiol-3-one 1,1-Dioxide as a Sulfur-Transfer Reagent", <i>J. Org. Chem.</i> , 1990 , <i>55</i> , 4693-4699	
EXAMINER		/Janet Epps Ford/	DATE CONSIDERED 07/21/2006



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-5468	Application No. 10/828,659
		Applicant Yogesh S. Sanghvi, et al.	
		Filing Date April 21, 2004	Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JE	11	Kamer, P.C.J. et al., "An Efficient Approach Toward the Synthesis of Phosphorothioate Diesters via the Schonberg Reaction", <i>Tetrahedron Letts.</i> , 1989, 30, 6757-6760	
	12	Polushin, N. N. et al., "Synthesis of Oligonucleotides Containing 2'-Azido-and 2'-Amino-2'-deoxyuridine Using Phosphotriester Chemistry," <i>Tetrahedron Letts.</i> , 1996, 37(19), 3227-3230	
	13	Rao, M.V., et al., "Solid phase synthesis of phosphorothioate oligonucleotides using benzyltriethylammonium tetrathiomolybdate as a rapid sulfur transfer reagent," <i>Tetrahedron Lett.</i> , 1994, 35(36), 6741-6744	
	14	Rao, M.V. et al., "Dibenzoyl Tetrasulphide-A Rapid Sulphur Transfer Agent in the Synthesis of Phosphorothioate Analogues of Oligonucleotides", <i>Tetrahedron Letts.</i> , 1992, 33, 4839-4842	
	15	Roclen, H. et al., "A study on the use of phenylacetyl disulfide in the solid-phase synthesis of oligodeoxynucleoside phosphorothioates," <i>Recl. Trav. Chim. Pays-Bas</i> , 1991, 110, 325-331	
	16	Stec, W.J. et al., "Bis (O,O-Diisopropoxy Phosphinothioyl) Disulfide - A Highly Efficient Sulfurizing Reagent for Cost-Effective Synthesis of Oligo(Nucleoside Phosphorothioate)s", <i>Tetrahedron Letts.</i> , 1993, 34(33), 5317-5320	
	17	Tang, J., et al., "Large-scale synthesis of oligonucleotide phosphorothioates using 3-amino-1,2,4-dithiazole-5-thione as an efficient sulfur-transfer reagent," <i>Organic Proc. Res. & Dev.</i> , 2000, 4, 194-198	
	18	Vu, H., et al., "Internucleotide phosphite sulfurization with tetraethylthiuram disulfide. Phosphorothioate oligonucleotides synthesis via phosphoramidite chemistry," <i>Tetrahedron Lett.</i> , 1991, 32(26), 3005-3008	
	19	Xu, Q. et al., "Use of 1,2,4-dithiazolidine (DtsNH) and 3-ethoxy-1,2,4-dithiazoline-5-one (EDITH) for synthesis of phosphorothioate-containing oligodeoxyribonucleotides", <i>Nucl. Acids Res.</i> , 1996, 24(9), 1602-1607	
JE	20	Xu, Q. et al., "Efficient introduction of phosphorothioates into RNA oligonucleotides by 3-ethoxy-1,2,4-dithiazoline-5-one (EDITH)", <i>Nucl. Acids Res.</i> , 1996, 24, 3643-3644	
EXAMINER		/Janet Epps Ford/	DATE CONSIDERED 07/21/2006



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-5468	Application No. 10/828,659
		Applicant Yogesh S. Sanghvi, et al.	
		Filing Date April 21, 2004	Group Not Yet Assigned
		Confirmation No. Not Yet Assigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JE	21	Zhang, Z., et al., "Solid phase synthesis of oligonucleotide phosphorothioate analogues using bis(ethoxythiocarbonyl)tetrasulfide as a new sulfur-transfer reagent," <i>Tetrahedron Lett.</i> , 1998, 39, 2467-2470	
JE	22	Zhang, Z., et al., "Solid phase synthesis of oligonucleotide phosphorothioate analogues using 3-methyl-1,2,4-dithiazolin-5-one (MEDITH) as a new sulfur-transfer reagent," <i>Tetrahedron Lett.</i> , 1999, 40, 2095-2098	
EXAMINER		/Janet Epps Ford/	DATE CONSIDERED 07/21/2006



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-5468	Application No. 10/828,659
	Applicant Yogesh S. Sanghvi, et al.	
	Filing Date April 21, 2004	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
JE	23	4,458,066	07/03/84	Caruthers, et al.	536	27
	24	4,816,571	03/28/89	Andrus, et al.	536	27
	25	5,149,798	09/22/92	Agrawal, et al.	536	27
	26	5,166,387	11/24/92	Hirschbein	558	129
	27	5,386,023	01/31/95	Sanghvi, et al.	536	25.3
	28	5,424,184	06/13/95	Santamaria, et al.	435	6
	29	5,614,621	03/25/97	Ravikumar, et al.	536	25.34
	30	5,750,666	05/12/98	Caruthers, et al.	536	23.1
	31	5,859,221	01/12/99	Cook, et al.	536	23.1
	32	6,025,482	02/15/00	Cook, et al.	536	23.1
	33	6,399,765 B1	06/04/02	Krotz, et al.	536	25.31
JE	34	6,653,458 B1	11/25/03	Manoharan, et al.	536	23.1

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
JE	35	WO 93/07883	04/29/93	PCT		

EXAMINER /Janet Epps Ford/	DATE CONSIDERED 07/21/2006
-----------------------------------	-----------------------------------